PATENT COOPERATION TREATY

PCT

REC'D 0 7 MAY 2004

INTERNATIONAL PRELIMINARY EXAMINATIONAL PRELIMINARY

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT-6932	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. PCT/IT 03/00007	International filing date (day/mon 13.01.2003	nth/year) Priority date (day/month/year) 15.01.2002		
International Patent Classification (IPC) or both national classification and IPC C07D209/08				
Applicant SIGMA-TAU INDUSTRIE FARMACEUTICHE RIUNITE S.P.A				
	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 			
2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
been amended and are the l	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).			
These annexes consist of a total of	These annexes consist of a total of sheets.			
3. This report contains indications re	lating to the following items:			
I ⊠ Basis of the opinion				
li □ Priority				
III 🗵 Non-establishment of o	ppinion with regard to novelty, i	inventive step and industrial applicability		
IV ☐ Lack of unity of inventi				
	nder Rule 66.2(a)(ii) with regar ons supporting such statement	rd to novelty, inventive step or industrial applicability;		
VI ☐ Certain documents cite	**			
VII 🔲 Certain defects in the i	nternational application			
VIII Certain observations o	n the international application			
Date of submission of the demand Date of completion of this report				
29.07.2003 06.05.2004				
Name and mailing address of the internations preliminary examining authority:	al Authori	ized Officer		
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Tel. +49 89 2399 - 0 Tx: 52369 Fax: +49 89 2399 - 4465	56 epmu d	none No. +49 89 2399-8287		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IT 03/00007

I.	Basis	of the	e repo	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages		
	1-88	3	as originally filed	
	Clai	ms, Numbers		
	1-9	·	as originally filed	
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.			
	The	uilable or furnished to this Authority in the following language: , which is:		
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of publi	cation of the international application (under Rule 48.3(b)).	
			nslation furnished for the purposes of international preliminary examination (under	
3.	B. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:			
		contained in the inter	national application in written form.	
		filed together with the	e international application in computer readable form.	
		furnished subsequen	tly to this Authority in written form.	
		furnished subsequen	tly to this Authority in computer readable form.	
		The statement that the international approximation of the international approximation of the statement of th	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.	
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.	
4.	The	amendments have re	esulted in the cancellation of:	
		the description,	pages:	
		the claims.	Nos.:	
		the drawings,	sheets:	
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have to beyond the disclosure as filed (Rule 70.2(c)).	
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this	
6.	Add	litional observations, i	f necessary:	

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ili. Non-establishitetit of optilioti witti regalu to novelty, inventive step and industrial applica	with regard to novelty, inventive step and industrial app	plicability
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Τ.	obv	obvious), or to be industrially applicable have not been examined in respect of:			
		the entire international applica	tion,		
	☒	claims Nos. 1-4,6-9 (all part)			
		because:			
		the said international application not require an international pre	on, or i	the said clain ry examinati	ns Nos. relate to the following subject matter which does on (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so un that no meaningful opinion could be formed (specify):			cular elements below) or said claims Nos. are so unclear cify):		
	×	the claims, or said claims Nos meaningful opinion could be for	. 1-4,6 ormed.	-9 (all part) a	re so inadequately supported by the description that no
		no international search report	has be	en establish	ed for the said claims Nos.
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:			
		the written form has not been	furnish	ed or does n	ot comply with the Standard.
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.
V.	Rea cita	soned statement under Artic tions and explanations supp	ele 35(2 orting	2) with regar such stater	rd to novelty, inventive step or industrial applicability;
1.	Stat	ement			
	Nov	elty (N)	Yes: No:	Claims Claims	5 1-4,6-9
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-9
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-9
2.	Cita	tions and explanations			
	600	concrete cheet			

III. Non-establishment of opinion

In view of the lack of support and disclosure of the present claims, the search examiner was only able to perform a meaningful search for the compounds of formula I wherein Ar is optionally substituted phenyl, naphthyl, 1-indolyl, 3-indolyl, 2-pyridyl or pyridinium; $(Z)_f(CH_2)_m(Q)_h$ is CH_2CH_2O , $CH_2CH_2CH_2O$, NH(C=O)O, $CH_2NH(C=O)O$ or $CH_2NH(C=O)$; the phenylene moiety is a p-phenylene, m-phenylene or a m-phenylene group substituted by a methoxy group and the $(A)_n(R1)COY$ group represents a thiazolidine-2,4-dione or a carboxylic acid or ester as defined in claim 1 (see International Search Report for details). The following examination is based on search subject matter only.

V. Reasoned statement

Novelty

All the documents in the search report disclose general formulae overlapping with present formula (I) and/or specific compounds falling within present formula (I) (see International Search Report for details). For example, the general formula disclosed in JP2000344748 overlaps with present formula (I) and the 7 specific compounds listed in the CAPLUS abstract annexed to the search report fall within the scope of this formula. The same is true for general formula (I) of WO99/62871 and examples 26b and 99-100, general formula (I) of EP-A-0 008 203 and e.g. example 13 and general formula (I) of EP-A-0 930 299 and examples 57 and 58. The compounds described in these documents are alleged to be useful in the treatment of diabetes.

Claims 1-4 and 6-9 do not fulfil the requirements of Article 33(2) PCT.

Inventive step

No inventive step can be acknowledged for subject matter which is not novel. The compounds of claim 5 are not specifically disclosed in the documents cited in the International Search Report. However, they fall within the scope of the cited documents. For example, compound xxi falls within the scope of general formula (I) of EP-A-0 008 203 and is a homologue of example 2 of this document. Compound xxxv falls within the scope of general formula (I) of EP-A-0 930 299 and is a closely related analogue of example 58 of this document. It would be obvious for the skilled man wishing to solve the technical problem of providing hypolipidemic and hypoglycemic compounds for use in the treatment of diabetes

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to select specific compounds already generically disclosed as having this activity in e.g. EP-A-0 008 203 and EP-A-0 930 299. For this reason claim 5 is not considered to be inventive.

Claims 1-9 do not fulfil the requirements of Article 33(3) PCT.

Industrial applicability

Claims 1-9 fulfil the requirements of Article 33(4) PCT.